PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file inforence	FOR FURTHER	an inni	see Form PGT/	ISA/220 ible, item 5 belov	٧.	
M04B107PCT/ASB	ACTION					
International application No.	International filing date (day/mo	nth/year)	(Earliest) Priori	ty Date (day/mor	mnyear)	
PCT/GB2005/000354	02/02/200	5	1	06/02/20	04	
Applicant						
						1
THE BOC GROUP PLC						
This International Search Report has bee according to Article 18. A copy is being to	n prepared by this International Sansmitted to the International Bure	earching Author 220.	ity and is transi	mitted to the app	dicani	
This International Search Report consists	of a total-of6	sheets.				1
X It is also accompanied by	a copy of each prior are documen	ıl čiled in Ihis re	port.			1
		t esti de la				
Basis of the report a. With regard to the language, the language in which it was filed, un	international search was carried less otherwise indicated under th	out on the basis is item.	of the internati	onal application i	n the	
this Authority (At		1.0	and the second			
b. With regard to any nucle	otide and/or amino acid seque	nce disclosed in	the internation	al application, se	e Box No. I.	
2. Certain claims were for	und unsearchable (See Box II).		e de la companya de La companya de la co			
2. X Unity of Invention is la	cking (see Box III).	en Por en typikan isi		*-		in the second
Assertion and a state		-				
4. With regard to the title,	submitted by the applicant.				and the second second	
X ine text is approved as	ished by this Authority to read as	fallows:		and the second s		
(UG fext use badu caleri	datica by that i about 15 to the					
	•					
		*	· ·			
	1					
·					-	
5. With regard to the abstract,					*	,
	submitted by the applicant.	•				
	hished, according to Rule 38.2(b). from the date of mailing of this int	by this Authorit arnational seam	y as it appears to report, subm	in Box No. IV, Tr it comments to th	ie applicant his Authority.	
6. With regard to the drawings,				-	-	
a. the figure of the drawings to b	e published with the abstract is Fi	gure No3_				
as subgested	by the applicant.					
V as salaried by	this Authority, because the applic	ant failed to sug	igest a liguro.			
ne calacted by	this Authority, because this figure	better characte	rizes the inven	tion.		
	o be published with the abstract.	5			· .	

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No. PCT/GB2005/000354

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search less were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without etter fusilitying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search less were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were limely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims. Nos.:
Remark on Protest The additional search lees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search tees.

Form PCT/ISA/210 (continuation of first sheet (2)) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/GB2005/000354

A. CLASSIFICATION OF SUBJECT MATTER
1PC 7 F04029/66 F16F15/04 F16L27/11

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 F16F F04D F16L H01J F04B

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the international search (name of tiots base and, where practical, search terms used)

EPO-Internal, PAJ, WPl Data

Caregory *	Ciration of cocument, with indication, where appropriate, of the relevant possesses.	Relevant to claim No.
X	US 3 000 389 A (ALSAGER LESLIE E ET AL) 19 September 1961 (1961-09-19) the whole document	1-11,13, 14,31
X,	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 14, 31 December 1998 (1998-12-31) & JP 10 252963 A (TOOFURE KK), 22 September 1998 (1998-09-22) abstract	1,6-10, 14,15
A	WO 01/51817 A (LEYBOLD VAKUUM GMBH; ADAMIETZ, RALF; BEYER, CHRISTIAN; ENGLAENDER, HEI) 19 July 2001 (2001-07-19) the whole document	1-31

X Further documents are listed in the continuation of box C.	Retent family members are listed in arrivax.
*Special callegation of died documents: *A' document defining the general state of the an which is not considered to be of particular refevence. *E' earlier document but published on or after the international filling date *L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as "specified) *O' document referring to an oral disclosure, use, "exhibition or other means." *P' tocument published prior to the international filling date but later than the oriently date claimed.	To later document published ones the international filing data or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention. 'X' document of particular relevance; the claimed invention connected considered novel or cannot be considered to involve an inventive step when the document is taken alone. 'Y' document of particular relevance; the claimed invention cannot be considered to involve an invention step when the document is combined with one or more other such tiocuments, such combined with one or more other such tiocuments, such combination being obvious to a person skilled in the art.
Date of the acrual completion of the international search	Date of molling of the international search report
2 June 2005	3 0, 06, 05
Name and mailing address of the ISA	Authoriz≤d officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2260 NV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nt. Fox: (+31-70) 340-3016	Pirog, P

Form PCT/SA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2005/000354

	Rion) DOCUMENTS CONSIDERED TO BE RELEVANT	Refevant to cleim No.
aleģojy "	Charles of document, with Indication, where appropriate, of the relevant possession	Helevani is claim NO.
	US 5 971 439 A (CWIK ET AL) 26 October 1999 (1999-10-26) column 7, line 16 - column 10, line 56; figure 1	1
(GB 1 54] 294 A (EROMUE-ES HALOZATTERVEZO VALLALAT) 28 February 1979 (1979-02-28) the whole document	1
Ą	DE 79 33 066 U1 (INDUSTRIE-WERKE KARLSRUHE AUGSBURG AG, 7500 KARLSRUHE) 21 February 1980 (1980-02-21) the whole document	1
Ä	US 6 065 780 A (HIROSHIMA ET AL) 23 May 2000 (2000-05-23) figures	-1
4	EP 1 270 949 A (BOC EDWARDS TECHNOLOGIES, LIMITED) 2 January 2003 (2003-01-02) figure 2	1
A	WO 02/036325 A (LEYBOLD VAKUUM GMBH; BEYER, CHRISTIAN; HODAPP, JOSEF; ENGLAENDER, HEIN) 31 October 2002 (2002-10-31) abstract	1
Á	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 02, 5 February 2003 (2003-02-05) & JP 2002 303294 A (BOC EDWARDS TECHNOLOGIES LTD), 18 October 2002 (2002-10-18) abstract	1
Ą	PATENT ABSTRACTS OF JAPAN vol. 005, no. 127 (M-083), 15 August 1981 (1981-08-15) & JP 56 064195 A (JEOL LTD), 1 June 1981 (1981-06-01) abstract	j
A	US 5 090 746 A (HOLZHAUSEN ET AL) / 25 February 1992 (1992-02-25) abstract	1-31
· A	DE 78 05 710 U1 (INDUSTRIE-WERKE KARLSRUHE AUGSBURG AG, 7500 KARLSRUHE, DE) 10 December 1981 (1981-12-10) figure 1	1-31
·A	US 3 985 378 A (MULLER ET AL) 12 October 1976 (1976-10-12) figures	1-31

5

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-17.19-31

A vibration damper for inhibiting transfer of vibrations to an apparatus during the evacuation thereof by a pump, the damper comprising a bellows arrangement, wherein the damper is axially pre-compressed.

2. claim: 18

A vibration damper for inhibiting transfer of vibrations to an apparatus during the evacuation thereof by a pump, the damper comprising a bellows arrangement, wherein the damper comprises resistive means arranged about an axis and under tension in such a way that when damper is subjected to an external axial force tending to compress the bellows arrangement, the resistive means is subjected to a tensile force.